#### PATENT COOPERATION TREATY

#### From the INTERNATIONAL BUREAU

### **PCT**

NOTIFICATION CONCERNING
TRANSMITTAL OF COPY OF INTERNATIONAL
PRELIMINARY REPORT ON PATENTABILITY
(CHAPTER I OF THE PATENT COOPERATION
TREATY)

(PCT Rule 44bis.1(c))

To:

COLEMAN, Henry, D. Coleman Sudol Sapone, P.C. 714 Colorado Avenue Bridgeport, CT 06605-1601 ETATS-UNIS D'AMERIQUE

Date of mailing (day/month/year)
17 August 2006 (17.08.2006)

Applicant's or agent's file reference Y03-097PCT

IMPORTANT NOTICE

International application No. PCT/US2005/002910

International filing date (day/month/year) 31 January 2005 (31.01.2005)

Priority date (day/month/year)
03 February 2004 (03.02.2004)

Applicant

YALE UNIVERSITY et al

The International Bureau transmits herewith a copy of the international preliminary report on patentability (Chapter I of the Patent Cooperation Treaty)

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AUG 2 5 2006

COLEMAN SUDOL SAPONE, P.C

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

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Form PCT/IB/326 (January 2004)

#### PATENT COOPERATION TREATY

## **PCT**

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference Y03-097PCT	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/US2005/002910	International filing date (day/month/year) 31 January 2005 (31.01.2005)	Priority date (day/month/year) 03 February 2004 (03.02.2004)		
International Patent Classification (8t See relevant information in Form	h edition unless older edition indicated) PCT/ISA/237			
Applicant YALE UNIVERSITY				

	<del></del>										
1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).										
2.	This REPORT consists of a total of 5 sheets, including this cover sheet.										
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.										
3.	This report contains indications	relating to the following items:									
	Box No. I	Basis of the report									
	Вох №. П	Priority									
	Box No. III  Non-establishment of opinion with regard to novelty, inventive step and industrial applicability										
	Box No. IV Lack of unity of invention										
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
	Box No. VI	Certain documents cited									
	Box No. VII	Certain defects in the international application									
	Box No. VIII	Certain observations on the international application									
4.		ommunicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but makes an express request under Article 23(2), before the expiration of 30 months from the priority									

Date of issuance of this report 07 August 2006 (07.08.2006)

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Facsimile No. +41 22 338 82 70 Form PCT/IB/373 (January 2004)

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### PATENT COOPERATION TREATY

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INTERNATIONAL SEAR	CHING AUTHOR
To:	
HENRY D. COLEMAN	

From the

HENRY D. COLEMAN COLEMAN SUDOL SAPONE, P.C.									
714 COLORADO	· · · · · · · · · · · · · · · · · · ·								
BRIDGEPORT,		İ		ITTEN OPINION OF THE					
Diabon on,	0. 00000 1001		INTERNATIONAL SEARCHING AUTHORITY						
				(PCT Rule 43 <i>bis</i> .1)					
			Date of mailing (day/month/year)	9 5 1111 200S.					
Applicant's or age	ent's file reference		FOR FURTHER	ACTION					
Y03-097PCT				See paragraph 2 below					
International appl	ication No.	International filing date	(day/month/year)	Priority date (day/month/year)					
PCT/US05/02910		31 January 2005 (31.01.	2005)	03 February 2004 (03.02.2004)					
international Pate	ent Classification (IPC)	or both national classificat	ion and IPC						
IPC(7): C07D 311 Applicant	1/32; A61K 31/352 and	US Cl.: 549/400; 514/451		<del></del>					
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YALE UNIVERS	211 A								
1. This opinion	contains indications rel	ating to the following item	ıs:						
Box N	No. I Basis of the	e opinion							
Box N		•							
	•	ishment of opinion with re	gard to povelty inve	ntive eten and industrial annlicability					
一									
		Lack of unity of invention							
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement									
Box 1	No. VI Certain doc	Certain documents cited							
Box 1	No. VII Certain def	Certain defects in the international application							
Box 1	No. VIII Certain obs	servations on the internation	onal application						
2. FURTHER	R ACTION								
International Authority otl	Preliminary Examining her than this one to be	ng Authority ("IPEA") e:	xcept that this does IPEA has notified the	be considered to be a written opinion of the not apply where the applicant chooses an ne International Bureau under Rule 66.1bis(b) ered.					
IPEA a writt	en reply together, when		lments, before the ex	PEA, the applicant is invited to submit to the privation of 3 months from the date of mailing whichever expires later.					
	ptions, see Form PCT/I			•					
3. For further de	etails, see notes to Forn	1 PCT/ISA/220.							
Name and mailing	g address of the ISA/ U	S .	Authorized office	r					
	p PCT, Attn: ISA/US	<b>-</b>	)	1, 7, 1,					
Commiss	sioner for Patents		Rita (. Desai	sta the choop					
P.O. Box	c 1450 ria, Virginia 22313-1450		1-1	7					
	ria, virginia 22313-1430		Telephone No. 7	03-308-1235 // 人づんて					

Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/02910

Box No. I Basis of this opinion
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which was filed, unless otherwise indicated under this item.
This opinion has been established on the basis of a translation from the original language into the following language, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
a. type of material
a sequence listing
table(s) related to the sequence listing
b. format of material
in written format
in computer readable form
c. time of filing/furnishing
contained in international application as filed.
filed together with the international application in computer readable form.
furnished subsequently to this Authority for the purposes of search.
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:
P. DOM(GA (0.07/D. N. D. (V

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/02910

Box No. V Reasoned statement under Ru applicability; citations and exp	e 43 bis.1(a)(i) with regard to novelty, i lanations supporting such statement	nventive step of industrial
1. Statement		
Novelty (N)	Claims 1-53	YES
• • •	Claims NONE	NO
Inventive step (IS)	Claims 1-53	YES
	Claims NONE	NO
Industrial applicability (IA)	Claims 1-53	YES
, , , , , , , , , , , , , , , , , , , ,	Claims NONE	NO
2. Citations and explanations:		
Claims 1-53 meet the criteria set out in PCT Artic nvention. Fatma U. Afifi et al teaches similar compounds to substituted		
M.ZIA-UL-HAQ et al teaches similar compound phenyl ring is substituted.	, see formula II on page 808 but they do not	have the OH substitutions and also the
Claims 1-53 meet the criteria set out in PCT Articlaimed can be made or used in industry.	le 33(4), and thus meet the industrial applica	bility because the subject matter
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/US05/02910

Box No. VIII	Certain observations on the international application												
						-							

The following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Drugs do not have an umbrella efficacy for treating any and all types of cancers. The specifications do not have aclear description of which cancer it treats. It is not clear how one can increase the sensitivity of tumor or cancer cellsto anti cancer agents. [Claim 30]